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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/750,326	12/31/2003	Jeffrey O. Saunders	VPI/02-05 US	4684	
27916 VEDTEV DU A	7590 03/22/2007 ARMACEUTICALS INC.	EXAMINER			
130 WAVERL	Y STREET	TRUONG, TAMTHOM NGO			
CAMBRIDGE, MA 02139-4242			ART UNIT	PAPER NUMBER	
			1624	-	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MC	ONTHS	03/22/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

1) Responsive to communication(s) filed on 27 November 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 and 9-18 is/are pending in the application. 4a) Of the above claim(s) 10-16 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7.9 and 17 is/are rejected. 7) Claim(s) 18 is/are objected to. 8) Claim(s) 1-10 is/are rejected. 7) Claim(s) may are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) cocepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Assome * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.			Application No.	Applicant(s)				
Tamthom N. Truong 1624 Tamthom N. Truong 1624 Tamthom N. Truong 1624 ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. BY THE STATE OF THE STATE OF THE STATE OF THIS COMMUNICATION. BY THE STATE OF THE STATE OF THIS COMMUNICATION. BY THE STATE OF THE STATE OF THIS COMMUNICATION. BY THE STATE OF T	Office Action Summary		10/750,326	SAUNDERS ET AL.				
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Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application								
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FINAL ACTION

Applicant's amendment of 11-27-06 has been fully considered. The amended claims have overcome the previous rejection of 112/2nd paragraph (item (a)), and the 102 rejection based on **Malamas et. al.** and **Gordeev et. al.** However, the amended claims and argument have not overcome the previous rejection of 112/2nd paragraph (item (b)) and the 102 rejection based on **Fujimori et. al.** (EP'835). Thus, said rejections are maintained.

Claims 10-16 are withdrawn as being drawn to the non-elected subject matter.

Claims 17 and 18 are added.

Claims 1-7, 17 and 18 are considered herein.

Claim Rejections - 35 USC § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 1. Claims 1-7, 9 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. In the definition of R⁸, the limitation of "amino protecting group" has indefinite metes and bounds because it is unclear what functional groups, rings or combination of both would constitute such an "amino protecting group". It is also not clear if the scope of R⁸ includes all the groups recited for R⁶. Although applicant cited the book of "Protecting Group in Organic Synthesis", it is not clear which of those groups is intended

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for R⁸. Since R⁸ is a terminal group which is part of a moiety defined for R³, the final structure of formula (I) would be indeterminate if the metes and bounds of R⁸ are indefinite.

- b. Claims 2-7 and 9 are rejected as being dependent on claim 1 and carrying over the indefinite limitations.
- c. Claim 17 lacks antecedent basis because it depends on claim 1, but recites groups such as: acetamido, sulfoxyalkyl, or sulfoxyphenyl, which are not recited in claim 1.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5, 9 remain rejected, and 17 is rejected under 35 U.S.C. 102(b) as being anticipated by **Fujimori et. al.** (EP 456,835 (previously cited) cited on IDS, see also US 5,234,928). For example, compound #93 reads on the claimed formula I with the following substituents:

```
A is an aryl group (i.e., benzo);

R<sub>a</sub> is -COOH;

R<sub>1</sub> is hydrogen; n = 1;
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R₂ is an heteroarylaliphatic wherein the heteroaryl group is substituted;

R³ is chloro, and R⁴ is hydrogen.

Note, the proviso excludes the compound wherein R³ is hydrogen, and not chloro.

Also, compound #108 (page 21) reads on the claimed formula I with the following substituents:

A is an aryl group (i.e., benzo);

 R_a is -COOH;

 R_1 is hydrogen; n = 1;

R₂ is an cycloaliphatic-aliphatic;

R³ is chloro, and R⁴ is hydrogen.

The disclosed compounds are used to inhibit platelet aggregation. Thus, the pharmaceutical composition in the instant claim 9 is also anticipated.

Applicant is suggested to review the entire reference for other permutations not mentioned herein.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-6, 9 remain rejected, and 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Fujimori et. al.** (EP'835).

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Besides compounds #93 and #108, Fujimori et. al. also disclose other species that read on various aspects of the invention including many substituents corresponding to the instant R^3 and R^4 as well as many group corresponding to the instant R_2 . Furthermore, the reference's generic formula I on page 3 provides equivalency teaching for numerous substituents corresponding to R_2 , R^3 and R^4 – see the definitions of R^1 - R^3 of the reference. Applicant is suggested to review the entire reference for other permutations not mentioned herein.

Thus, the skilled chemist would have been motivated to make other compounds of the claimed formula I because said compounds would have been expected to inhibit platelet aggregation as well.

Thus, at the time that the invention was made, it would have been obvious to make and use compounds of the claimed formula I in view of the teaching above.

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Claim Objections

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4. Claims 1-7, 9 and 17 are also objected to for minor informality. The faxed copy of the amendment has small font texts, which is smeared and illegible, particularly for the variables.

Applicant is suggested to make a clearer copy with larger font.

5. Claim 18 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 18 recites specific compounds of dioxo-quinazoline substituted with –CH₂-furanyl which is not taught or fairly suggested by the teaching of Fujimori et. al.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamthom N. Truong whose telephone number is 571-272-0676. The examiner can normally be reached on M, T and Th (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tamthom N. Truong

Examiner

Art Unit 1624

3-16-07

EMILY BERNHARDT SPX
PRIMARY EXAMINER

GROUP 1600